



New Hampshire Department of Transportation

Qualified Products List

Issue 2004-1

April 16, 2004

Products appearing on this list have been prequalified by the Department for general use. Unless noted otherwise, these products may be used on Highway and Bridge projects, under the Section/Item Number indicated, without further testing. A Certificate of Compliance is required for these materials. A product that falls into one of these categories and is not listed shall not be used, unless qualified through written request to the NHDOT, Bureau of Materials & Research. Such request shall be made with sufficient lead-time to allow for any necessary testing and/or research.

Inclusion of a product on this list does not imply that the product meets any or all applicable State or Federal regulations related to safety or environmental issues in effect at the time. The manufacturer's Material Safety Data Sheet (MSDS) should be referred to before use of any product appearing on this list.

NOTICE: Report any failure, incompatibility or other problem associated with any product on this list to:

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SECTION 403 - HOT BITUMINOUS PAVEMENT

B. ITEM 403.1109 - MODIFIER FOR HIGH STRENGTH HOT BITUMINOUS PAVEMENT

(Use only when specified)

Manufacturer:

American Gilsonite Co.

Product:

Gilsonite HMA Modifier (8% by weight of asphalt cement)

SECTION 413 - HOT-POURED CRACK SEALANT

A. Item 413.1 - HOT POURED CRACK SEALANT (ASTM D-3405)

Note: Acceptance of actual shipments will be based on test results of samples taken at the construction site.

Manufacturer:

American Permaquik

Crafco Inc.

Koch Materials Co.

The Pavement Depot/Dalton Enterprises,

W.R. Meadows

Product:

Permaquik 6195

Road Saver 201

Product #9005

Crack-Rite HP3405

Hi-Spec

B. Item 413.2 - HOT POURED CRACK SEALANT (LOW MODULUS)

Note: Acceptance of actual shipments will be based on test results of samples taken at the construction site.

Manufacturer:

Bemac Products (McAsphalt Industries)

Crafco, Inc.

Deery American Corp.

Koch Materials Co

Product:

BERAM 195 Low Modulus

Road Saver 231

DAC Hot Poured Crack Sealant DAC 101

Product #9030

SECTION 510 - BEARING PILES

A. ITEM 510.65 - DRIVING POINTS FOR STEEL BEARING PILES

Conforming to AASHTO M 103 (ASTM A27), Grade 65-35 or ASTM A148, Grade 90-60

Manufacturer:

Assoc. Pile & Fitting Corp.

Assoc. Pile & Fitting Corp.

Assoc. Pile & Fitting Corp.

Assoc. Pile & Fitting Corp.

Dougherty Foundation Prod., Inc.

Dougherty Foundation Prod., Inc.

Mid-America Foundation Supply

Piling Accessories, Inc.

Versabite Piling Accessories

Versa-Steel Inc.

Product:

Hard-Bite HP 77600-B

Hard-Bite HP 77750-B

Hard-Bite HP 7780-B *

Pruyn Point HP 75750-B

Tuftpuf Tufloy H-776 *

Tuftpuf Tufloy H-777 *

Model HPH **

Super-Bite PAR-T Series

Versa-Bite VB 300-P Series

Versa Steel VS-300N Series

* Available only in Grade 90-60

** Available only in Grade 65-35

SECTION 520 - PORTLAND CEMENT CONCRETE

A. FAST SET NON-SHRINK PATCHING MORTAR (For Bridge Deck Repairs)

Manufacturer:

Chemrex

Conspex Marketing & Manufacturing

CTS Cement Manufacturing Co.

Five Star Products

Five Star Products

Silpro Masonry Systems

Product:

ThoRoc 10-60 Rapid Mortar

Pave Patch 3000

Rapid Set Concrete Mix (supplied with 3/8" aggregate)*

Structural Concrete

Structural Concrete V/O Patch **

Fastcrete *

* High Early Strength (1000 psi minimum at 1 hour - lab)

** Recommended also for vertical/overhead patching

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SECTION 520 – continued

B. ACCELERATORS

Contact Materials & Research (271-3151) for products when required.

Manufacturer:

Product:

C. AIR ENTRAINING ADMIXTURES

Manufacturer:

Master Builders, Inc.
Master Builders, Inc.
W.R. Grace & Co.
W.R. Grace & Co.
W.R. Grace & Co.

Product:

MB AE 90
Micro-Air
Daravair 1000
Daravair AT60
Darex II

D. WATER REDUCING ADMIXTURES

Manufacturer:

Master Builders, Inc.
Master Builders, Inc.
Master Builders, Inc.
W.R. Grace & Co.
W.R. Grace & Co.
W.R. Grace & Co.
W.R. Grace & Co.
W.R. Grace & Co.
W.R. Grace & Co.

Product:

Polyheed 997 (Midrange)
Pozzolith 200N
Pozzolith 220N
Adva 100
ADVA Flow
Daracem 55 (Midrange)
Daracem 65 (Midrange)
MIRA 70
WRDA/HYCOL

E. RETARDING ADMIXTURES

Manufacturer:

Master Builders, Inc.
Master Builders, Inc.
W.R. Grace & Co.

Product:

Pozzolith 100XR
Pozzolith 122R
Daratard 17

F. SUPERPLASTICIZERS (Type G)

Manufacturer:

Master Builders, Inc.
W.R. Grace & Co.

Product:

Rheobuild 716 I
Daracem 100

G. CORROSION INHIBITORS

Manufacturer:

Master Builders, Inc.
W.R. Grace & Co.
W.R. Grace & Co.

Product:

Rheocrete CNI
DCI
DCI-S

H. CURING COMPOUNDS

See specifications for limitations regarding the use of curing compounds.

Manufacturer:

Dayton Superior
L&M Construction Chemicals Inc.
Poly Sat Inc.

Product:

D.S.S.C.C. White Resin Cure
Cure R (w/fugitive dye)
Harris Super Konkure White

I. BONDING AGENTS (Fresh Concrete to Hardened Concrete)

Note: Bonding agents to be used only when specified. Application to be per manufacturer's recommendation.

Manufacturer:

Master Builders, Inc.

Product:

Concresive Liquid LPL

NHDOT Qualified Products List

SECTION 520 - continued

J. BONDING AGENTS (Fresh Concrete to Steel)

Note: Bonding agents to be used only when specified. Application to be per manufacturer's recommendation.

Manufacturer:

Sika Corp

Product:

Armatec 110

K. PLASTIC BEARING STRIP (For Expansion End)

Manufacturer:

Korolath of New England

Product:

Korolath PE (Contact Cement - Sikadur 31 Hi-Mod Gel)

L. CLOSED CELL EXPANSION MATERIAL

Use only when specified.

Manufacturer:

E-poxy Engineered Materials, LLC

Product:

Evazote 380 E.S.P. (w/ Eva-Pox Bonder No. 1)

M. CLOSED CELL FILLER MATERIAL

Manufacturer:

Dow Corning Corp.
Owens Corning

Product:

STYROFOAM
Foamular 250

N. POLYMER-MODIFIED, 2-COMPONENT, FAST SETTING CONCRETE PATCH

Use only when specified

Manufacturer:

Sonneborn Building Prods./ChemRex

Product:

Sonopatch 200 with Sonocrete Acrylic Ad.

SECTION 526 - CONCRETE CRACK SEALERS

A. ITEM 526.2 - EPOXY FOR NON-MOVING CRACKS

Manufacturer:

Dayton Superior
Dural International (TammsInd.)
E-Poxy Industries, Inc.
Hilti Construction Chemicals
Master Builders, Inc.
Master Builders, Inc.
Sika Corp (Cool Weather)
Sika Corp. (Warm Weather)
Sinmast

Product:

Sure-Inject J-56
Duralcrete
Injection Resin #4
Hilti CI 060 EP Crack Injection System
Concresive 1380
Concresive 3009
Sikadur 52
Sikadur 35
Sinmast Product #2

B. ITEM 526.3 - HIGH MOLECULAR WEIGHT METHACRYLATE CRACK SEALER

Manufacturer:

Sika Corp

Product:

SikaPronto 19

SECTION 529 - PRESTRESSED CONCRETE BRIDGE DECK

A. ITEM 529.1 - HIGH STRENGTH, IMPACT RESISTANT, NON-SHRINK GROUT

Manufacturer:

Conspec Marketing & Manufacturing Co.
Dayton Superior
Sonneborn Building Products/ChemRex

Product:

Conspec 100 Non-Shrink Non-Metallic Grout
Suregrip High Performance Grout
SonogROUT 14K Hy Flow

SECTION 530 - WATERPROOFING CONCRETE SURFACES

A. ITEM 530.3 - CEMENT BASE WITH ACRYLIC LATEX (2 Coats)

Manufacturer:

Harris Specialty Chemicals, Inc.
Tamms Industries

Product:

Thoroseal (Pearl Gray) w/Acryl 60
Tamoseal (Oyster Gray) w/AKKRO-7T

B. ITEM 530.3 - CEMENT BASE, POLYMER MODIFIED (2 Coats)

Manufacturer:

Flexcrete Limited
Harris Specialty Chemicals, Inc.
Tamms Industries

Product:

Silcabond FCR 851 (Gray)
ThoRoc Cement Coating (Gray)
Duraltop Coating (Gray)

SECTION 532 - ANTI-GRAFFITI COATINGS

A. ITEM 532.1 - SEMI-PERMANENT ANTI-GRAFFITI COATINGS (CLEAR)

Manufacturer:

Professional Products of Kansas, Inc.
ProSoCo, Inc.

Product:

PROFESSIONAL Water Sealant Anti-Graffiti *, GRAFFITI FREE cleaner
Defacer Eraser Graffiti Control WB **, Defacer Eraser Graffiti Wipe cleaner

* Coat #1 - Super-strength (15% solids), Coat #2 - Extra-strength (8% solids) or Super-strength, in accordance with manufacturer's recommendations

** Two coats, in accordance with manufacturer's recommendations

SECTION 534 - WATER REPELLENT

A. ITEM 534.1 - LINSEED OIL (Anti-spalling Compound)

Manufacturer:

A.H. Harris and Sons, Inc.
Dayton Superior
New England Paint Mfg. Co.
Tamms Industries

Product:

Harris Super Antispall Voc
Day-Chem Anti-Spall (J-33)
Locktite
Tri-Dar 66/1A

B. ITEM 534.3 - SILANE/SILOXANE

Manufacturer:

Advanced Chemical Technologies, Inc.
Master Builders, Inc.
ProSoCo, Inc.
ProSoCo, Inc.
Sivento Inc.
Sivento Inc.
Vexcon Chemicals, Inc.

Product:

Sil-Act ATS 42
Masterseal SL40
SL 100
SLX100
Chem-Trete BSM 40 VOC
Dynasytan BH-N
Powerseal 40

SECTION 535 - EPOXY WATERPROOFING

A. ITEM 535.1 - BITUMEN EPOXY WATERPROOFING

Manufacturer:

Anti-Hydro Company
Harris Specialty Chemicals, Inc.
Kop-Coast Div./Carboline
Master Builders, Inc.
Tamms Industries

Product:

A-H Coal Tar Epoxy 210
Nitocote ET 400
Bitumastic 300-M
Concresive 3020
Dural 306

SECTION 536 - EPOXY COATING FOR CONCRETE

A. ITEM 536.11 - EPOXY COATING FOR CONCRETE (Mortar Coat/Seal Coat)

<u>Manufacturer:</u>	<u>Product:</u>
Dural International (TAMMS Ind.)	Flexocrete Gel/Dural 304
Master Builders, Inc.	Concresive 1180/Concresive 1490
Master Builders, Inc.	Concresive 3013/Concresive 3025
Sika Corporation	Sikadur 23 LM Gel/Sikagard 62

B. ITEM 536.3 - HIGH BUILD, HIGH GLOSS, WHITE EPOXY COATING FOR CONCRETE

<u>Manufacturer:</u>	<u>Product:</u>
Dural International (Tamms)	Duralkote
Kaufman Products Inc.	Sure-Poxy Hi-Bild
Master Builders, Inc.	Concresive 1170
Master Builders, Inc.	Concresive 3026
Sika Corporation	Sikagard 62

SECTION 537 - CONCRETE SEALER

A. HIGH SOLIDS ACRYLIC SEALER (Two Coats)

<u>Manufacturer:</u>	<u>Product:</u>
A.H. Harris and Sons, Inc.	Certi-vex AC1315
Silpro Corporation	Crete Seal
Tamms	Luster Seal 300

B. FERROUS STAIN REMOVER

<u>Manufacturer:</u>	<u>Product:</u>
ProSoCo	Sure-Klean Ferrous Remover

SECTION 538 - BARRIER MEMBRANE

A. ITEMS 538.1 AND 538.2 - WARM WEATHER APPLICATION

(Temp. 40 Degs. F and rising)

<u>Manufacturer:</u>	<u>Product:</u>
Royston Laboratories	10 AN Easy Pave, 713A Primer, 104CM Mastic

Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F

B. ITEM 538.2 - COOL WEATHER APPLICATION

(Temp. 25 Degs F and rising)

<u>Manufacturer:</u>	<u>Product:</u>
Protecto Wrap Co.	Jiffy Seal 140/60 Cold Weather, VOC 100 Primer, 160H Mastic
Royston Laboratories Inc.	104-AHT, 740 Primer, 104CM Mastic
W.R. Meadows Inc.	Seal Tight Mel-Rol, MEL-Prime VOC Solvent Base Primer, Elastomeric Mastic
W.R.Grace & Co	Lo Temp Membrane, Bituthene Primer B2, Bituthene Mastic

C. PROTECTION BOARD FOR BARRIER MEMBRANE

(Use on membraned surfaces to be backfilled against)

<u>Manufacturer:</u>	<u>Product:</u>
W.R. Grace & Co.	1.0" Closed-Cell Extruded Polystyrene Board
W.R. Meadows	1/2" 100% Bituminous Impregnated Fiber Board
W.R. Meadows	Bituthene Asphaltic Hardboard
	Sealtight Melnar
	Sealtight PC-2

D. ITEM 538.3 - BARRIER MEMBRANE, LIQUID SPRAY

<u>Manufacturer:</u>	<u>Product:</u>
Stirling Lloyd Products	Eliminator, PAR 1 Primer, SA 1030 Tack Coat

Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F

SECTION 538 - continued

E. ITEM 538.4 - BARRIER MEMBRANE, HOT RUBBERIZED ASPHALT

(For use along curb line with Items 538.5 and 538.6)

<u>Manufacturer:</u>	<u>Product:</u>
Bemac Products (McAsphalt)	Bemalastic 1213 B.D.M.
Henry Company	790-11 MTO Grade
Hydrotech Membrane Corp.	Hydrotech BDM
Permaquik Corp.	PQ 6100 BM
Ultraseal Construction Products	Ultraseal 3750

F. ITEM 538.5 - BARRIER MEMBRANE, WELDED BY TORCH

<u>Manufacturer:</u>	<u>Product:</u>
IKO Industries Ltd	Armour Bridge/Pont 4.5 mm *
Soprema Roofing & Waterproofing Inc.	Sopralene Flam Antirock Membrane, Antirock Primer (formerly Elastocol) & Tackcoat

Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F

** Use either Elastocol 500 Primer or Roofcraft Modified Asphalt Primer for both the primer and tack coat.*

G. ITEM 538.6 - BARRIER MEMBRANE, WELDED BY TORCH - MACHINE METHOD

<u>Manufacturer:</u>	<u>Product:</u>
Soprema Roofing & Waterproofing Inc.	Sopralene Flam Antirock Membrane, Antirock Primer (formerly Elastocol) & Tackcoat

Required Laydown Temperature - Hot Bituminous Pavement (538.3.5) = 290 - 330 deg. F

H. URETHANE LIQUID MEMBRANE

(Use only when specified)

<u>Manufacturer:</u>	<u>Product:</u>
Gates Manufacturing	Gacoflex LM60
Royston Laboratories	163-99A
W.R. Grace & Co.	Bituthene LM-3000

I. MOISTURE METER (For concrete bridge decks)

<u>Manufacturer:</u>	<u>Product:</u>
Sovereign Chemical Industries, Ltd.	Dual Probe Moisture Master
Tramex, Ltd	Tramex Concrete Encounter

J. FIXED-ALIGNMENT ADHESION TESTER TYPE I

<u>Manufacturer:</u>	<u>Product:</u>
Proceq SA	Proceq Dyna Z6 Pull Off Tester with digital manometer *

** For testing of membrane and substrate as specified. Requires 50 mm test discs.*

K. FIXED-ALIGNMENT ADHESION TESTER TYPE II

<u>Manufacturer:</u>	<u>Product:</u>
Elcometer Instruments, Ltd	Elcometer 106 Adhesion Tester, Scale 1

** For testing of substrate as specified. Requires 20 mm test discs.*

SECTION 541 - WATERSTOPS (PVC)

A. ITEM 541.1 - NH TYPE 1

<u>Manufacturer:</u>	<u>Product:</u>
Greenstreak	781 (Ribbed), 721 (Ribbed Split), 741 (Dumbbell)
Paul Murphy Plastics	FR-4316 (Ribbed)
Tamms	300 (Ribbed Split), DB-8 (Dumbbell)
Vinylex	RB4-316 (Ribbed), RSB4-316 (Ribbed Split), D4-316 (Dumbbell)
Vulcan	8036 (Ribbed Split), 8040 (Dumbbell)

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SECTION 541 - continued

B. ITEM 541.2 - NH TYPE 2

Manufacturer:

Greenstreak
Paul Murphy Plastics
Tamms
Vinylex
Vulcan

Product:

703 (Ribbed), 723 (Ribbed Split)
CR-6316 (Ribbed), SR-6316 (Ribbed Split)
4B (Ribbed), 400 (Ribbed Split)
RB6-316 (Ribbed), RSB6-316 (Ribbed Split)
8021 (Ribbed), 8032 (Ribbed Split)

C. ITEM 541.3 - NH TYPE 3

Manufacturer:

Greenstreak
Paul Murphy Plastics
Tamms
Vinylex
Vulcan

Product:

780 (Ribbed), 757 (Dumbbell)
CR-6380 (Ribbed), SR-6380 (Ribbed Split)
4C (Ribbed), 400C (Ribbed Split)
RB6-14 (Ribbed), RSB6-14 (Ribbed Split), DBG-14 (Dumbbell)
8068 (Ribbed), 8028 (Dumbbell)

D. ITEM 541.4 - NH TYPE 4

Manufacturer:

Greenstreak
Tamms
Vinylex
Vulcan

Product:

696 (Ribbed), 753 (Ribbed Split)
7F (Ribbed), DB-6 (Dumbbell)
RLB9-38 (Ribbed), DB9-38 (Dumbbell), DSB9-38 (Dumbbell)
8077 (Ribbed), 8031 (Dumbbell)

E. ITEM 541.5 - NH TYPE 5

Manufacturer:

Greenstreak
Vinylex

Product:

769 (Ribbed)
L85-14 (Ribbed)

SECTION 548 - ELASTOMERIC BEARING PADS

A. EPOXY ADHESIVE FOR BEARING PADS

Manufacturer:

Delta Plastics Co.
Sika Corp.

Product:

Delta AS23-18 A&B Gel Type Epoxy Adhesive
Sikadur 32, Hi-Mod LPL Structural Epoxy Adhesive

SECTION 550 - STRUCTURAL STEEL

A. FAST SETTING GROUTS FOR ANCHOR BOLTS (550.3.15.4)

Manufacturer:

Dayton Superior
Minwax Construction Products Division

Product:

Sure Grip Utility Grout
Super Por Rok

C. PREFORMED FABRIC BEARING PADS (550.2.6)

Manufacturer:

Beemer Precision Co.
Boston Industrial
Buckeye Rubber Products
Con-Serv
Elkhart Rubber
Fabreeka Products Co.
JVI Inc.
Voss Engineering

Product:

Beeco Preformed Fabric, Type 1
Viblon
Buckfab
PF Preformed Fabric Pad
Shockpad
Fabreeka Bearing Pad
Carpralon
Sorbtex

SECTION 550 - continued

D. ITEM 550.29 - BRIDGE SHOES (ISOLATION BEARINGS)

<u>Manufacturer:</u>	<u>Product:</u>
Dynamic Isolation Systems, Inc.	Elastomeric Isolator
Earthquake Protection Systems, Inc.	Friction Pendulum
R.J. Watson, Inc.	EQS Bearing
Seismic Energy Products, L.P.	Elastomeric Isolator
Skellerup Oiles Seismic Protection, LLC	Elastomeric Isolator

SECTION 552 - REHABILITATION OF EXPANSION BRIDGE SHOES

A. ITEM 552.2 - LUBRICATION (Lithium Base NGLI-2 Grade)

<u>Manufacturer:</u>	<u>Product:</u>
Exxon	Beacon P 290
Texaco	Marfax (All Purpose)

SECTION 559 - JOINT SEAL

A. ITEM 559.4 - ELASTOMERIC PLUG TYPE EXPANSION JOINT

<u>Manufacturer:</u>	<u>Product:</u>
Linear Dynamics, Inc.	BJS with Road Repair Systems Material: BJ Super
Linear Dynamics, Inc.	Thorma-Joint with Road Repair Systems Material: BJ Super
Pavetech International, Inc.	Matrix 502 with Matrix 502 Polymer-Modified Bridge Joint Binder
Watson Bowman Acme/Harris Specialty	Expandex Joint with Wabo Expandex Material
Wyoming Equipment Sales, Inc.	A.P.J. Asphalt Plug Expansion Joint System with APB binder

B. ITEM 559.5 - SILICONE JOINT SEALANT

The use of primer is required with these products unless waived by the Engineer.

<u>Manufacturer:</u>	<u>Product:</u>
Dow Corning Corp.	Dow Corning 888 (Non-sag, for vertical and horizontal joints)
Dow Corning Corp.	Dow Corning 890-SL (Self-leveling, for horizontal joints only)

SECTION 560 - PREFABRICATED COMPRESSION SEAL EXPANSION JOINT

A. PREFABRICATED COMPRESSION SEAL EXPANSION JOINT

<u>Manufacturer:</u>	<u>Product:</u>
D.S. Brown	Elastic "CV" Series
Elastomer	"M" and "X" Series
RUBATEX	"RPB" Series
Structural Accessories	"SA" Series
Watson, Bowman & Acme	"WJ" Series

SECTION 561 - PREFABRICATED EXPANSION JOINT

A. PREFAB. EXPANSION JOINT "TYPE A" (STRIP SEAL)

Manufacturer:

D.S. Brown
ESCO Seal
Structural Accessories
Watson Bowman Acme

Product:

"A2, L2, H & NY" Series (SSA2, SSE2, SSCM2, SSPA steel shapes only)
E, A, M, C steel shapes only
"Onflex" Series
"SE" Series

B. PREFAB. EXPANSION JOINT "TYPE B" (BOX SEAL)

Manufacturer:

D.S. Brown
Watson, Bowman & Acme

Product:

"MA" Series
"D" Series

C. PREFORMED FABRIC TROUGH (Used with prefabricated finger joints)

Manufacturer:

Fabreeka Products Co.
Thermoid of H.B.D. Industries, Inc
Voss Engineering

Product:

Flexible Drain Trough
3-ply PNT 50 Saniwhite 3/64 x FS
15 oz. Flexible Drain Trough

SECTION 562 - ELASTOMERIC SEALANT

A. ELASTOMERIC SEALANT (Vertical Joints)

The use of primer is required with these products unless waived by the Engineer.

Manufacturer:

Sika Corporation
Sika Corporation
Sonneborn Building Products

Product:

Sikaflex-15LM
Sikaflex 1A
Sonolastic NP-1

B. ELASTOMERIC SEALANT (Horizontal Joints)

Manufacturer:

Sonneborn Building Products

Product:

Sonolastic SL-1

SECTION 563 - BRIDGE RAILING

A. ANCHOR BOLTS W/RESIN ADHESIVE

These products are only qualified when installed with a minimum embedment depth of 9 times the nominal anchor diameter and for anchor diameters and ultimate capacities of: 3/4"(28.4 kips), 7/8"(39.25 kips), and 1"(51.5 kips).

Manufacturer shall certify that the supplied system (size, embedment, capacity) meets the design requirements specified.

<u>Manufacturer:</u>	<u>Product:</u>
Hilti	HSE 2421
Hilti, Inc.	HIT HY-150
Hilti, Inc.	HIT-RE 500
Hilti, Inc.	HVA Anchor Bolt w/ HVU Adhesive Cartridge
KelKen-Gold, Inc.	Kelken KeligROUT System
Simpson Strong-Tie	SET High Strength Epoxy
U.S. Anchor Corp.	HS-200
Unitex	Pro-Poxy 400

Note: Random proof test(s) of installed systems will be ordered by the Engineer.

B. AASHTO M 251 PADS

<u>Manufacturer:</u>	<u>Product:</u>
WARCO	50-E-52 (Neoprene) Pad

C. RANDOM-ORIENTED FIBER PADS

<u>Manufacturer:</u>	<u>Product:</u>
Fabreeka International	SA-47 Bearing Pads
JVI	Comcord Pads
Voss Engineering Inc.	VOSSCO

SECTION 566 - ELASTOMERIC JOINT SEAL

A. ELASTOMERIC JOINT SEAL

<u>Manufacturer:</u>	<u>Product:</u>
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See qualified list for Section 560.

SECTION 581 - BRICK AND BLOCK MASONRY

A. ASPHALT-PRIMER (SOLVENT TYPE)

<u>Manufacturer:</u>	<u>Product:</u>
Sonneborn Products	Hydrocide 648
Tamms Industries	Dehydratine #4

SECTION 593 - GEOTEXTILES

Section 593 GEOTEXTILES

Pay Item and Unit:

593.A B C D

A = Application

- 1 = Subsurface Drainage (Requires Filter Category)
- 2 = Separation
- 3 = Stabilization
- 4 = Permanent Erosion Control (Requires Filter Category)

B = Strength Class

- 0 = Class 0
- 1 = Class 1
- 2 = Class 2
- 3 = Class 3

C = Structure

- 0 = Contractor Option
- 1 = Nonwoven (Default for Applications 1 & 4)
- 2 = Monofilament, Woven
- 3 = Slit Filament, Woven

D = Filter Category

(Required for Applications 1 & 4 only)

- 1 = Filter Category 1
- 2 = Filter Category 2
- 3 = Filter Category 3
- 4 = Filter Category 4
- 5 = Filter Category 5
- 6 = Filter Category 6

Manufacturer & Product	QUALIFIED FOR			
	A	B	C	D
Amoco Fabrics & Fiber Co.	Application	Strength Class	Structure	Filter Category
Propex 4552	1,2,3,4	3	1	1,2,3,4,5
Propex 4553	1,2,3,4	2,3	1	1,2,3,4,5
Propex 2004	2,3	2,3	3	--
Carthage Mills	A	B	C	D
	Application	Strength Class	Structure	Filter Category
FX60HS	1,2,3,4	1,2,3	1	1,2,3,4,5
Carthage 6%	2,3	2,3	2	--
LINQ Industrial Fabrics	A	B	C	D
	Application	Strength Class	Structure	Filter Category
GTF 300	2,3	1,2,3	3	--
160EX	1,2,3,4	2,3	1	1,2,4,5
180EX	1,2,3,4	1,2,3	1	1,2,3,4,5
WEBTEC, Inc.	A	B	C	D
	Application	Strength Class	Structure	Filter Category
Terratex HD	2,3	1,2,3	3	--
Terratex GS-250	2,3	1,2,3	3	--
Terratex No. 7	1,2,3,4	2,3	1	1,2,3,4,5
Terratex No. 8	1,2,3,4	1,2,3	1	1,2,3,4,5

SECTION 603 - CULVERTS AND STORM DRAINS

A. POLYETHYLENE (HDPE)

Approved Manufacturers:

Manufacturer:

Advanced Drainage Systems, Inc.
Hancor, Inc.
Lane Enterprises, Inc.
Plasti-Drain Ltee.
Solenio, Inc.

Product:

Pipe in sizes up to 36 inch diameter
Pipe in sizes up to 36 inch diameter
Pipe in sizes up to 36 inch diameter
Pipe in sizes up to 36 inch diameter
Pipe in sizes up to 36 inch diameter

B. POLYVINYL CHLORIDE (PVC)

Approved Manufacturers:

Manufacturer:

Contech Construction Products

Product:

Pipe in sizes up to 36-inch diameter

SECTION 604 - CATCH BASINS, DROP INLETS, AND MANHOLES

A. FIBER REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES

Note: Use of fiber reinforcement is only allowed for drainage structures with a maximum diameter of 4'.

Manufacturer:

W.R. Grace

Product:

Strux 90/40 Fibers

SECTION 605 - UNDERDRAINS

A. POLYETHYLENE (HDPE)

Approved Manufacturers:

Manufacturer:

Advanced Drainage Systems, Inc.
Hancor, Inc.
Lane Enterprises, Inc.
Plasti-Drain Ltee.
Solenio, Inc.

Product:

Per specifications
Per specifications
Per specifications
Per specifications
Per specifications

B. POLYVINYL CHLORIDE (PVC)

Approved Manufacturers:

Manufacturer:

Contech Construction Products

Product:

Per Specifications

SECTION 606 - GUARDRAIL

A. COMPOSITE MATERIAL BLOCKS

(Use only when specified)

Manufacturer:

Product:

Contact Materials & Research (271-3151) for products when required.

SECTION 609 - CURBS

A. CEMENT MORTAR FOR BRIDGE CURB BEDDING

Manufacturer:

AH Harris
Conspec Marketing & Manufacturing Co.
Dayton Superior
Dayton Superior
Five Star Products
Master Builders, Inc.

Product:

Harris Construction Grout
Enduro #50
1107 Advantage Grout
Sure-Grip High Performance Grout
Structural Concrete
Set Grout

SECTION 609 - continued

B. POLYESTER FIBERS FOR BITUMINOUS CURB

<u>Manufacturer:</u>	<u>Product:</u>
GFC Materials Co.	Petroflex Type 450
Kapejo Inc.	Boni Fibers Type B

SECTION 616 - TRAFFIC SIGNALS

A. SAW CUT LOOP SEALANT

<u>Manufacturer:</u>	<u>Product:</u>
3M	Loop Sealant
Chemque, Inc.	Q-Seal 290S Detector Loop Sealant
Chemque, Inc.	Q-Seal 296-06 Detector Loop Sealant
Dynatron/Bondo Corp.	Bondo P-606 Detector
Harris Specialty Chemicals, Inc.	Gold Label Loop Sealant
RAI Products	Permanent Sealer 974
RAI Products	Pro-Seal 6006
Statler Paints	Stat-A-Flex Poly Seal

SECTION 619 - MAINTENANCE OF TRAFFIC

A. TEMPORARY RAISED PAVEMENT MARKERS

<u>Manufacturer:</u>	<u>Product:</u>
Astro Optics Corp.	Model TPM
Avery Dennison	Model 66
Bunzl Extrusion Washington, Inc. (formerly Davidson Plastics)	RPM Durable Pavement Marker
Bunzl Extrusion Washington, Inc. (formerly Davidson Plastics)	TOM Road Marker

SECTION 632 - RETROREFLECTIVE PAVEMENT MARKINGS

A. ITEM 632.1 - PREFORMED RETROREFLECTIVE TAPE, TYPE I (REMOVABLE)

<u>Manufacturer:</u>	<u>Product:</u>
3M	Series 620
Advance Traffic Markings	ATM 200 Removable Construction Grade
Brite-Line Technologies, Inc	Brite-Line Series 100 Removable Tape
Lafarge Road Marking	Prismoline TRT Series T-2512
Trelleborg Industries	Trelleborg Removable Road Tape RY-140 (Yellow)
Trelleborg Industries	Trelleborg Removable Road Tape RW-140(White)

B. ITEM 632.5 - PREFORMED RETROREFLECTIVE TAPE, TYPE V

Note: This category is for longitudinal lines, legends, and symbols, except for the word "ONLY" and arrows.

<u>Manufacturer:</u>	<u>Product:</u>
3M	Series 380-I
Brite-Line Technologies, Inc.	Brite-Line Series 1000 Durable Tape

C. ITEM 632.6 - PREFORMED RETROREFLECTIVE TAPE, TYPE VI

Note: This category is for transverse markings, and the word "ONLY" and arrows.

<u>Manufacturer:</u>	<u>Product:</u>
3M	Series 380-I
Brite-Line Technologies, Inc.	Brite-Line Series 1000 Durable Tape

D. ITEMS 632.81 & 632.82 - RAISED PAVEMENT MARKERS (SINGLE, DOUBLE FACE)

<u>Manufacturer:</u>	<u>Product:</u>
Astro Optics Corp.	Model TPM
Avery Dennison	Model 66
Bunzl Extrusion Washington, Inc. (formerly Davidson Plastics)	RPM Durable Pavement Marker

SECTION 632 - continued

F. ITEM 632.9 - PREFORMED BLACKOUT TAPE, TYPE I (REMOVABLE)

Note: This category is for temporary obliteration of pavement markings.

Manufacturer:

Advance Traffic Markings
Brite-Line Technologies, Inc.
Swarco Industries, Inc.
Trelleborg Industries

Product:

ATM 280 Hide A Line
Deltaline BTR
Director 2 Blackout Removable Tape
Trelleborg Removable Tape RB-140

SECTION 645 - EROSION CONTROL

A. ITEM 645.1 - MULCH

Manufacturer:

Outdoor World of New England

Product:

Kid Kushion Playground Mulch

Contact Roadside Development Section, Bureau of Highway Design, 271-6476

B. ITEM 645.21 - SLOPE STABILIZATION (2:1 OR FLATTER)

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476)

Manufacturer:

American Excelsior Company
American Excelsior Company
American Excelsior Company
American Excelsior Company
Bonterra America
Bonterra America
Conweb Fibers
East Coast Erosion Blankets, LLC
Greenfix America
Greenfix America
North American Green
North American Green
North American Green
North American Green
North American Green
North American Green
North American Green
PPS Packaging Company (Western
Pro Bark Incorporated
Rhino Seed & Landscape Supply
Verdyol Plant Research, LTD
Verdyol Plant Research, LTD
Verdyol Plant Research, LTD
Western Excelsior Corporation
Western Excelsior Corporation
Western Excelsior Corporation
Western Excelsior Corporation
Western Excelsior Corporation
Western Excelsior Corporation
Weyerhaeuser

Product:

SS-G1(3:1 or less)
SS-G2 (2:1 or less)
SS-W1 (3:1 or less)
SS-W2 (2:1 or less)
S1 (3:1 or less) (6 fps)
S2 (3:1 or less) (10 fps)
Futerra
ECSC-2
WS05 (3:1 or less)
WS052 (3:1 or less)
DS150
DS75 (3:1 or less)
S150
S150BN
S75 (3:1 or less)
S75BN (3:1 or less)
SC150BN
Excel Regular
PBEC-2
Rhino Erosion King Straw Blanket (Double net high velocity straw blanket)
Contech SFB1
Contech SFB2
Contech SFB2BD
XCEL CS-3 All Natural
XCEL SR-1 (3:1 or less)
XCEL SR-1 All Natural (3:1 or less)
XCEL SS-2
XCEL SS-2 All Natural
XCEL SS-2 w/rapid go netting
Soil Guard

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

NHDOT Qualified Products List

SECTION 645 - continued

C. ITEM 645.22 - SLOPE STABILIZATION (STEEPER THAN 2:1)

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476)

Note: Products in this category are also acceptable for use under Item 645.21

<u>Manufacturer:</u>	<u>Product:</u>
American Excelsior Company	Curlex I
American Excelsior Company	Curlex II
American Excelsior Company	Curlex Quickgrass
Bonterra America	CS2
East Coast Erosion Blankets, LLC	ECS-1
East Coast Erosion Blankets, LLC	ECS-2
Greenfix America	C4
Greenfix America	C7
Greenfix America	CF072B
Greenfix America	CF072RR
Greenfix America	CFS072B
Greenfix America	CFS072R
Greenfix America	WS072
Greenfix America	WS072B
North American Green	C125
North American Green	C125BN
North American Green	SC150
North American Green	SC150BN
PPS Packaging Company (Western	Excel Super Duty
PPS Packaging Company (Western	Excel Superior
Pro Bark Incorporated	PBEC-521
Verdyol Plant Research, LTD	Contech CFB2
Verdyol Plant Research, LTD	Contech CFB2BD
Verdyol Plant Research, LTD	Contech SCFB2
Verdyol Plant Research, LTD	Contech SCFB2B
Western Excelsior Corporation	XCEL CC-4
Western Excelsior Corporation	XCEL CC-4 All Natural
Western Excelsior Corporation	XCEL CS-3
Western Excelsior Corporation	XCEL CS-3 All Natural

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

D. ITEM 645.23 - CHANNEL STABILIZATION (LOW VELOCITY)

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476)

<u>Manufacturer:</u>	<u>Product:</u>
American Excelsior Company	Curlex I (5 fps max.)
American Excelsior Company	Curlex II (7 fps max.)
American Excelsior Company	Curlex Quickgrass (5 fps max.)
Greenfix America	WS05 (6 fps max.)
Greenfix America	WS052 (8 fps max.)
Greenfix America	WS072 (9 fps max.)
Greenfix America	WS072B (9 fps max.)
Indian Valley Industries, Inc.	Sedimat
North American Green	SC150 (8 fps max.)
North American Green	SC150BN (8 fps max.)
PPS Packaging Company (Western	Excel Regular (5 fps max.)
PPS Packaging Company (Western	Excel Superior (7 fps max.)
Pro Bark Incorporated	PBF-DC
Synthetic Industries	Landlok 407 GR (5 fps max.)
Verdyol Plant Research, LTD	Contech CFB2(12fps)
Verdyol Plant Research, LTD	Contech SCFB2(10 fps)
Verdyol Plant Research, LTD	Contech SCFB2B (10 fps)
Western Excelsior Corporation	XCEL CS-3
Western Excelsior Corporation	XCEL CS-3 All Natural
Western Excelsior Corporation	XCEL R-1 Green Dyed (5fps max)

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

SECTION 645 - continued

E. ITEM 645.24 - CHANNEL STABILIZATION (HIGH VELOCITY)

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476)

Note: Products in this category are also acceptable for use under Item 645.23

<u>Manufacturer:</u>	<u>Product:</u>
American Excelsior Company	Curlex III (HV) (10 fps max)
Bonterra America	C2 (15 fps max.)
Greenfix America	C4 (10 fps max.)
Greenfix America	C7 (10 fps max.)
Greenfix America	CF072B (14 fps max.)
Greenfix America	CFS072B (10 fps max.)
Greenfix America	CFS072R (10 fps max.)
Greenfix America	CFS072RR (14 fps max.)
North American Green	C125 (10 fps max.)
North American Green	C125BN (10 fps max.)
PPS Packaging Company (Western	Excel Superduty (12 fps max.)
Verdyol Plant Reasearch, LTD	Contech CF4
Verdyol Plant Reasearch, LTD	Contech CF7
Verdyol Plant Reasearch, LTD	Contech CF9
Verdyol Plant Reasearch, LTD	Contech CFB2 (12 fps)
Western Excelsior Corporation	XCEL CC-4

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

F. ITEM 645.25 - PERMANENT STABILIZATION

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476)

<u>Manufacturer:</u>	<u>Product:</u>
Bonterra America	CP2 (8 fps Channels) (18 fps)
Bonterra America	SFB (Channels) (20 fps)
Bonterra America	SFB12 (Channels) (27 fps)
Colbond Geosynthetics	Enkamat 7010 (Slopes & Channels)
Colbond Geosynthetics	Enkamat 7020 (Slopes & Channels)
North American Green	C350 (10-18 fps)
North American Green	P300 (9-14 fps)
PPS Packaging Company (Western	Excel Permamat-100 (Slopes & 7-12 fps Channels)
PPS Packaging Company (Western	Excel Permamat-200F (Slopes & 7-12 fps Channels)
Pro Bark Incorporated	PBGC
Synthetic Industries	Contech TRM C-35
Synthetic Industries	Contech TRM C-45
Synthetic Industries	Contech TRM C-50
Synthetic Industries	Contech TRM C-60
Synthetic Industries	Contech TRM C-61
Synthetic Industries	LandLok TRM1060 (8-20 fps)
Synthetic Industries	LandLok TRM450 (8-18 fps)
Synthetic Industries	Pyramat
Webtec, Inc.	Terra Jute (Slopes)
Western Excelsior Corporation	XCEL PP-5-10
Western Excelsior Corporation	XCEL PP-5-12

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

NHDOT Qualified Products List

SECTION 645 - continued

G. ITEM 645.531 - SILT FENCE

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476)

Note: In addition to those products meeting NHDOT specifications under this category, the following products are qualified for use:

Manufacturer:

Environmental Research Corp.
Pro Bark Incorporated

Product:

BioFence
PBS-FS

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.

H. TACKIFIERS

(For specific product information, contact the Roadside Development Section, Bureau of Highway Design, 271-6476)

Manufacturer:

Acadia Eco-Products
Eastern Products, Inc.
Eastern Products, Inc.
Erosion Control Technologies
Reinco Inc.

Product:

Earth Bond
Ecotak OP
Ecotak Sat
EC3000
Reinco RMBplus

Qualified products shall be used in accordance with the manufacturer's specified conditions & installed as directed by the manufacturer.

These conditions & installation instructions shall be furnished to the Engineer at least 10 working days prior to actual delivery & installation on the project.